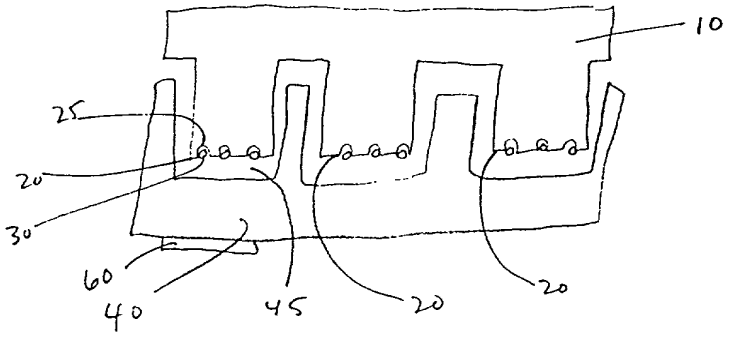


Fig 1A

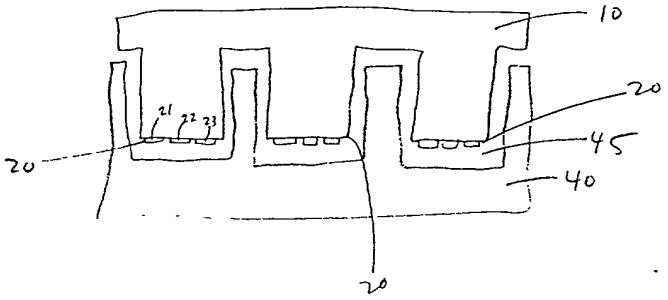


Fig 1B

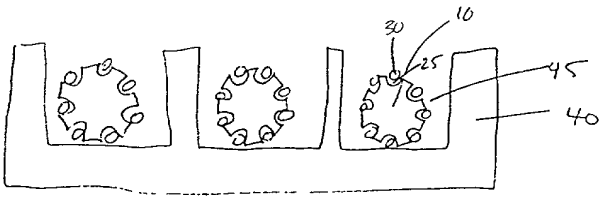


Fig 1C

Fig 1

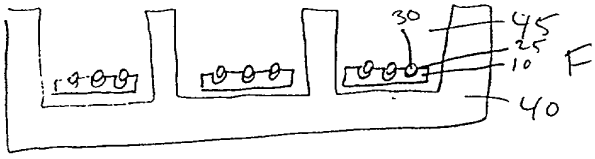


Fig 1D

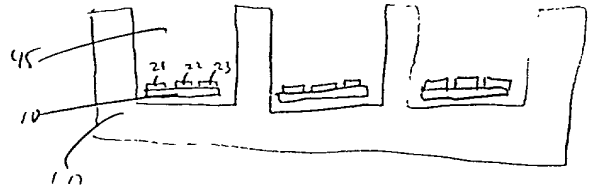


Fig 1E

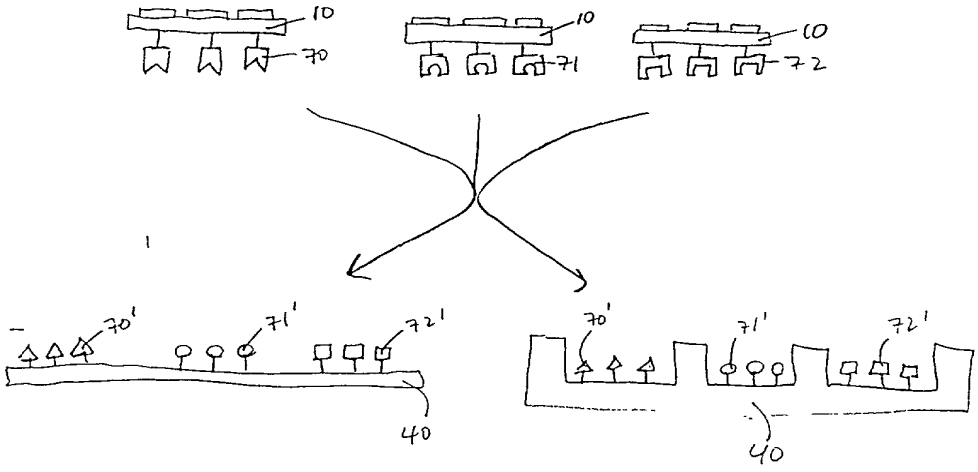
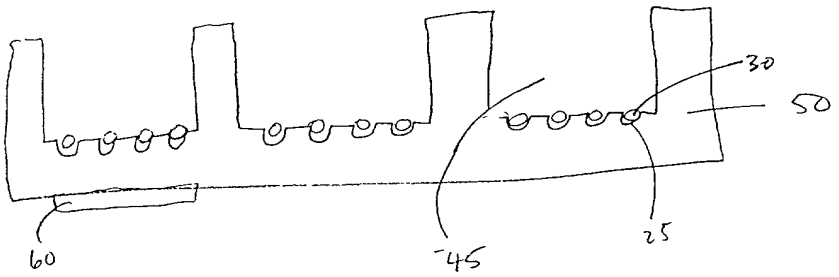


Fig 1, cont

Fig 1F



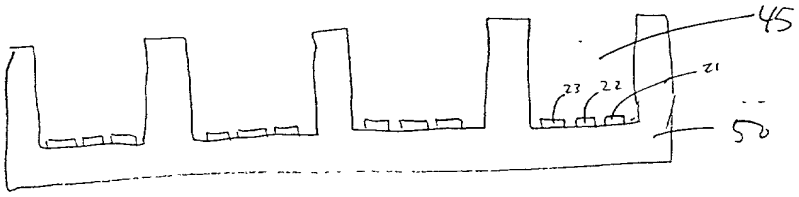


FIG 2

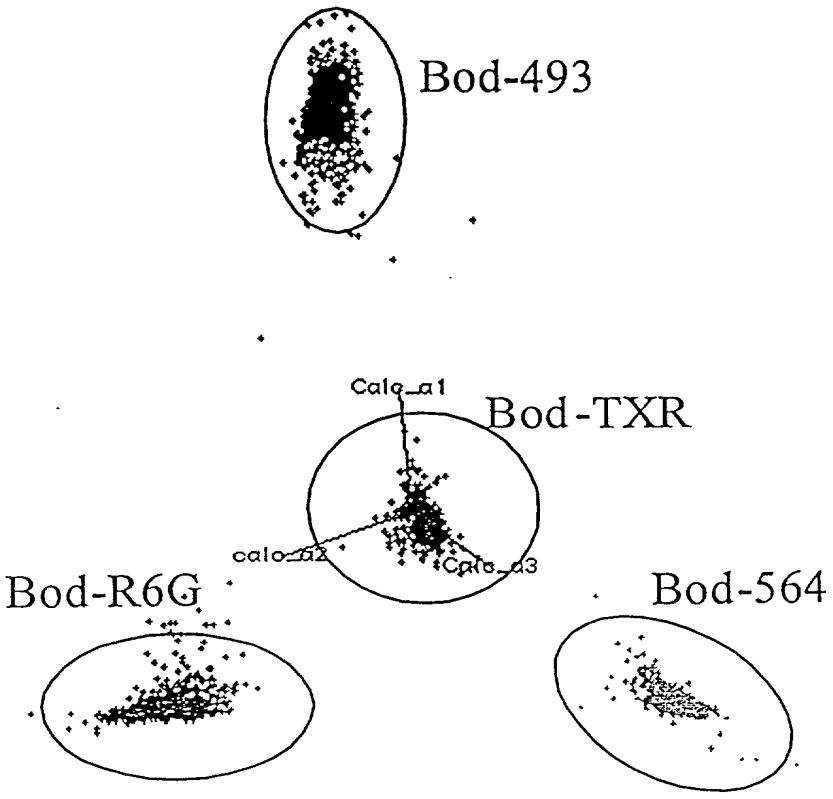


Figure 6

Fig 3

Decoding 16 Probes

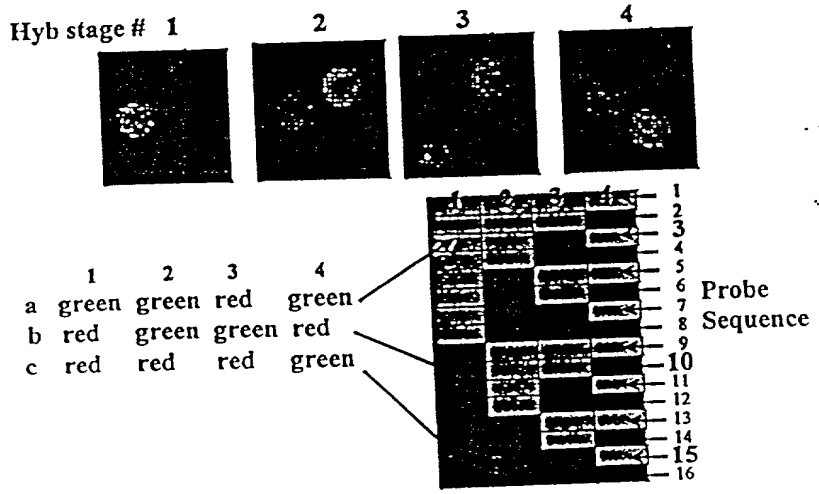


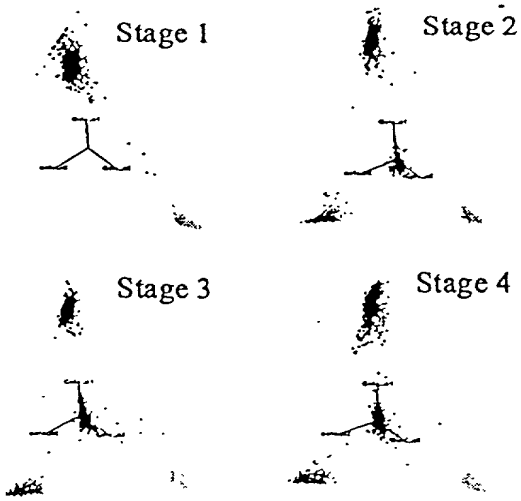
Fig 4

Figure 1

128 bead types (4013 beads total)

Four dyes (Bod493, BodR6G, Bod564, BodTXR)

Four Stages



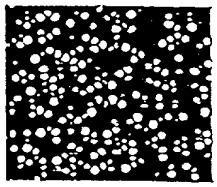


Fig 5

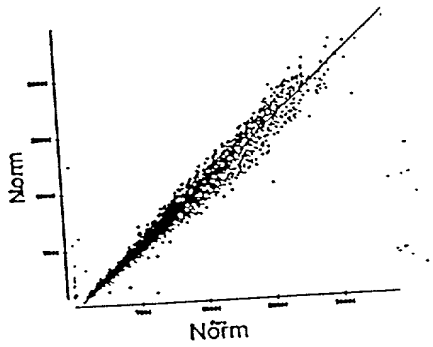
Figure 2

GreyScale Decoding

A.

Code	S1	S2	S3
1	100	100	100
2	100	100	40
3	100	100	10
4	100	40	100
5	100	40	40
6	100	40	10
7	100	10	100
8	100	10	40
9	100	10	10
10	40	100	100
11	40	100	40
12	40	100	10
13	40	40	100
14	40	40	40
15	40	40	10
16	40	10	100
17	40	10	40
18	40	10	10
19	10	100	100
20	10	100	40
21	10	100	10
22	10	40	100
23	10	40	40
24	10	40	10
25	10	10	100
26	10	10	40
27	10	10	10

B.



C.

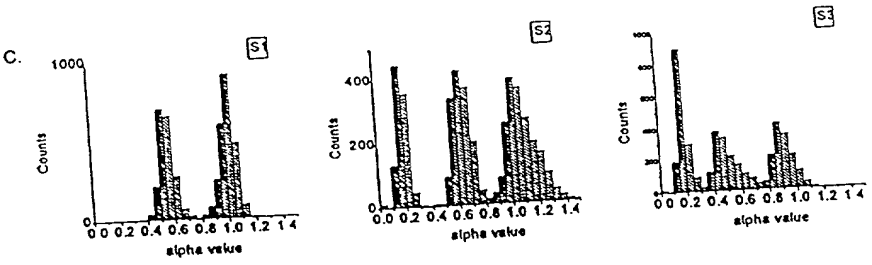
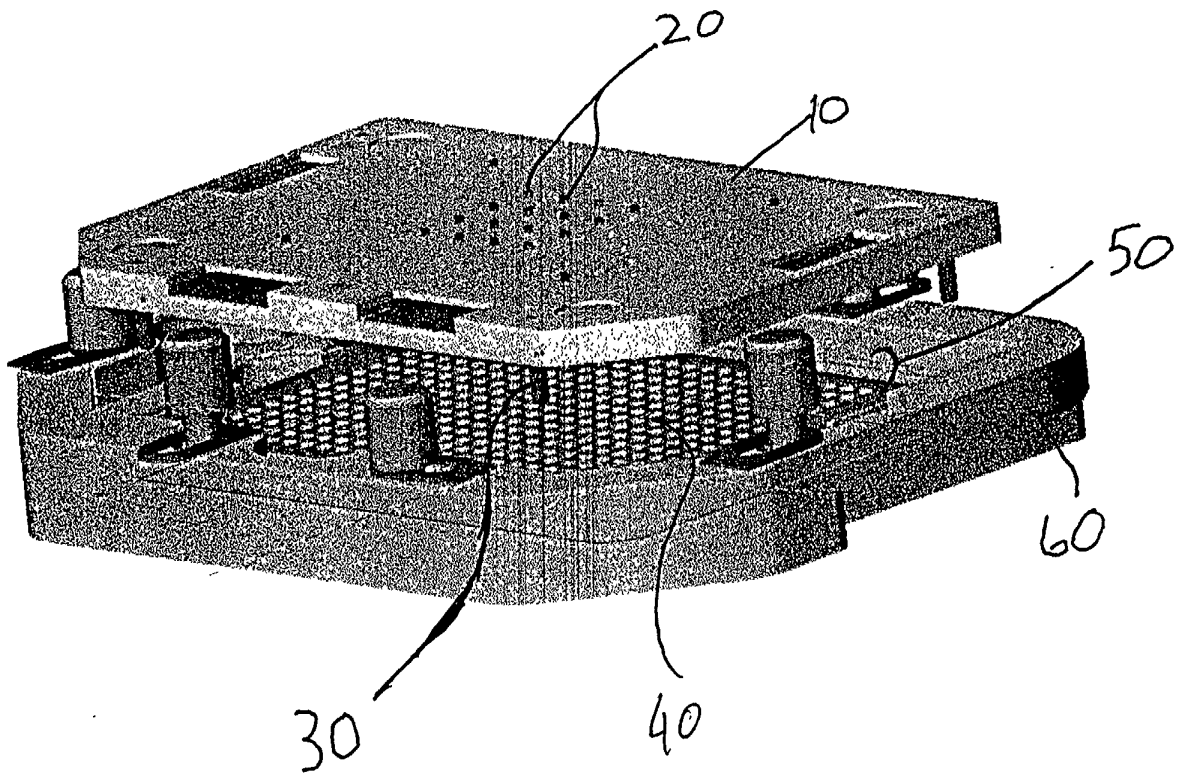


Figure 3 Fig 6

Figure 7A



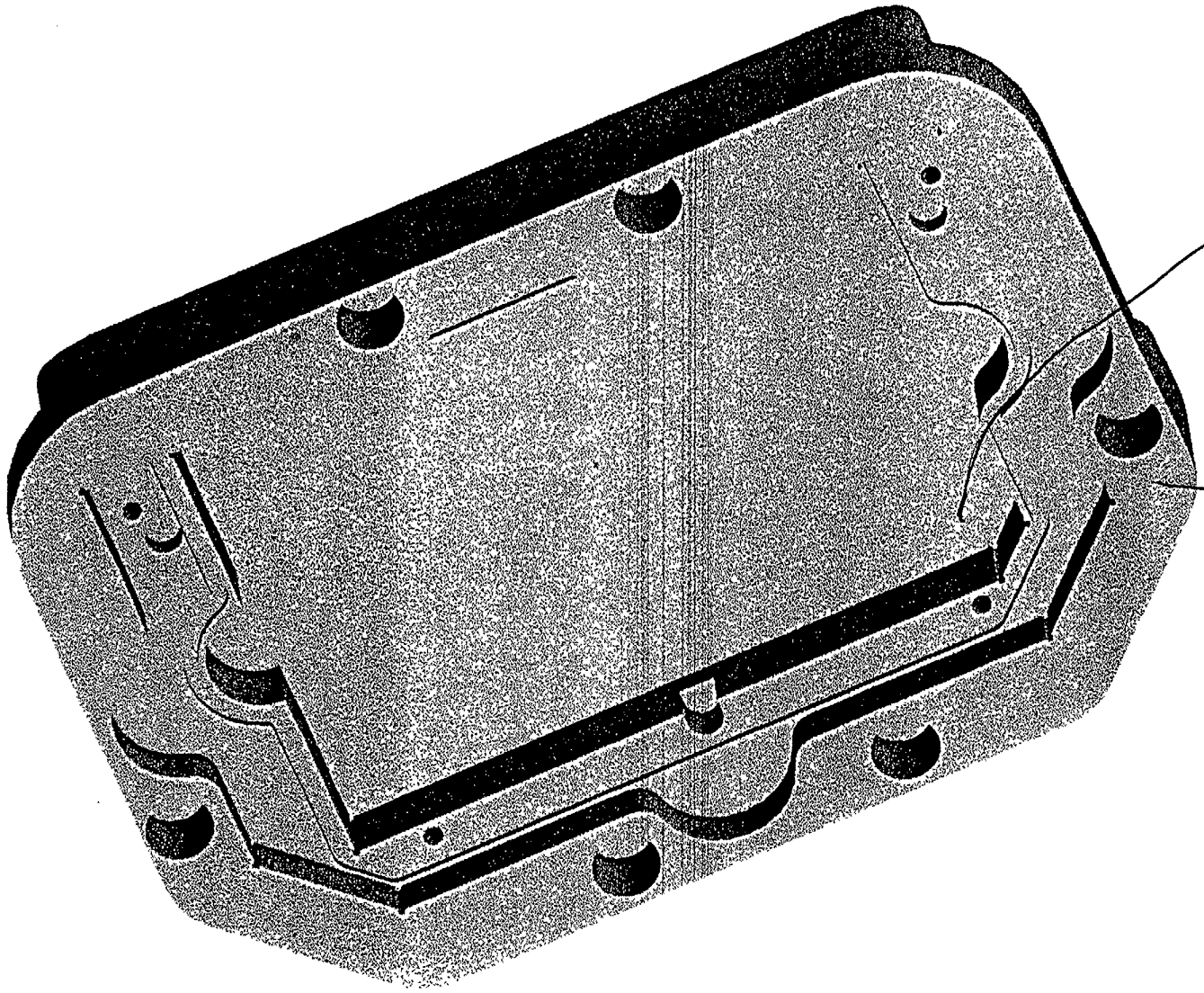
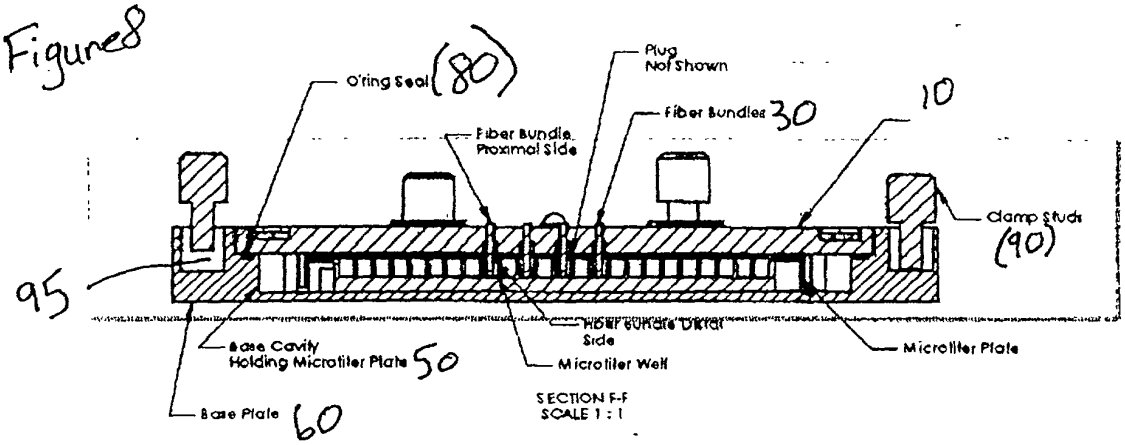


Figure 7B

Figure8


O'ring Seal (80)
Plug Not Shown
Fiber Bundle Proximal Side
Fiber Bundles 30
10
Clamp Studs (90)
95
Base Cavity Holding Microtiter Plate 50
Microtiter Well
Microtiter Plate
Base Plate 60
SECTION F-F
SCALE 1 : 1

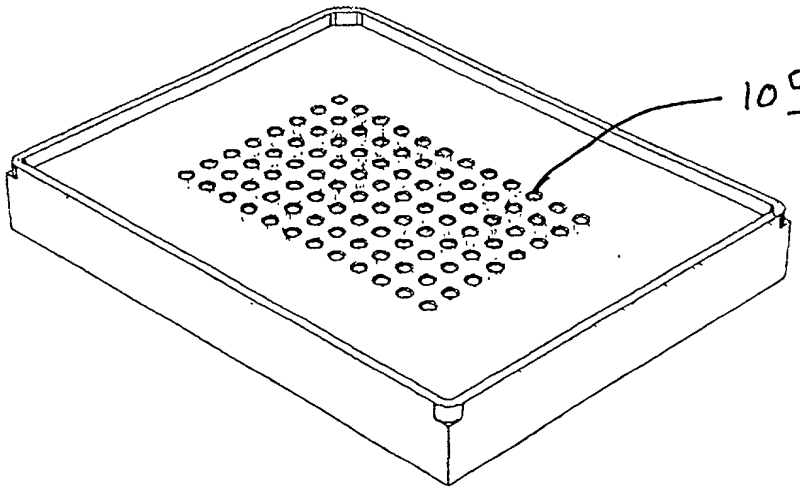


Figure 9A

Fig. 1 Base Block Concept, Isometric View

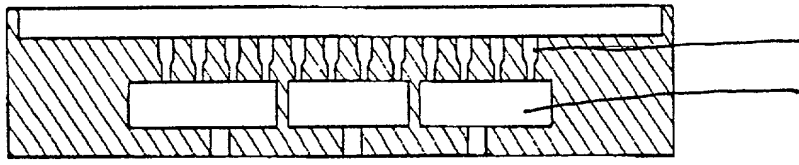


Figure 9B

Fig. 2 Base Block Concept, Cross Section Side View

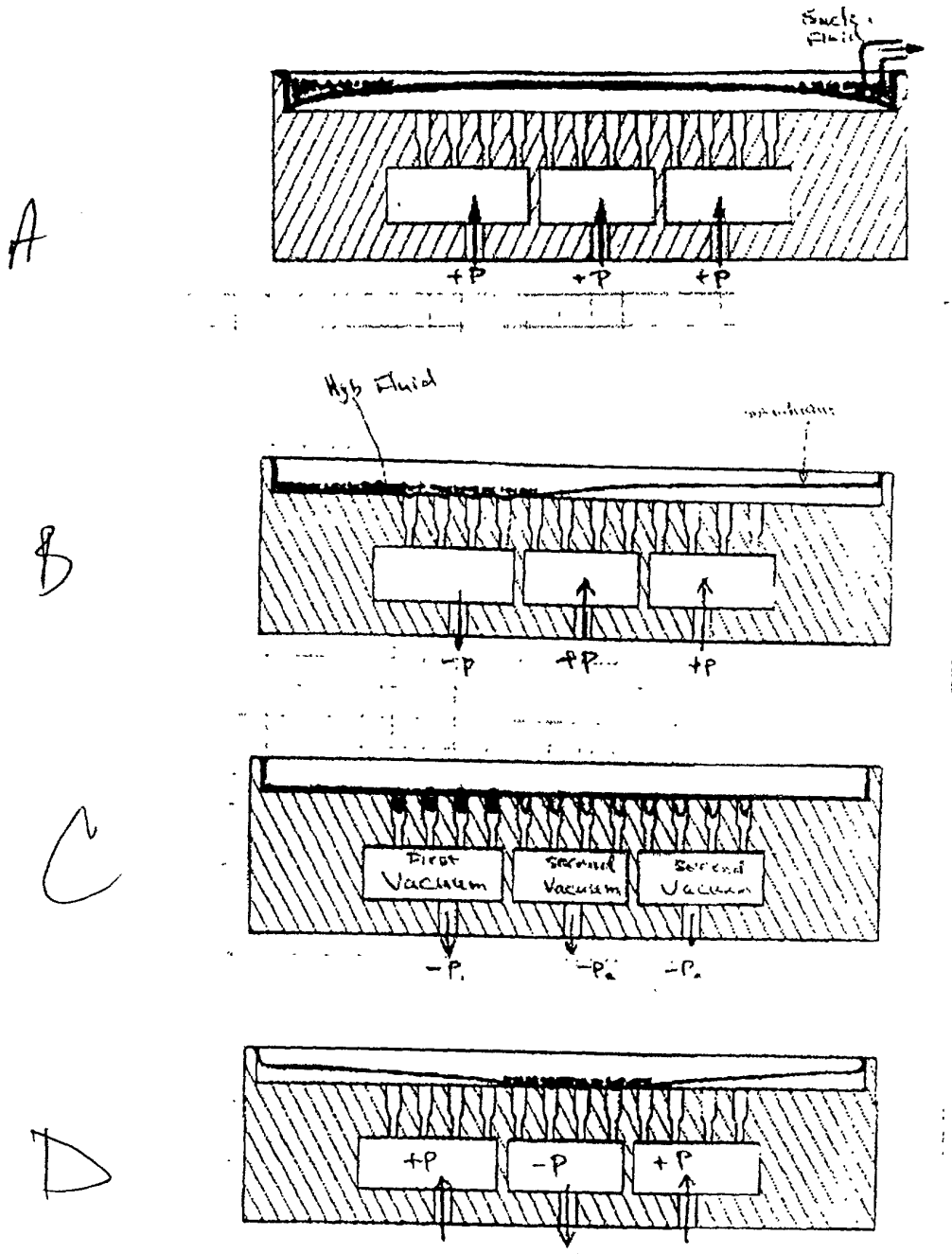
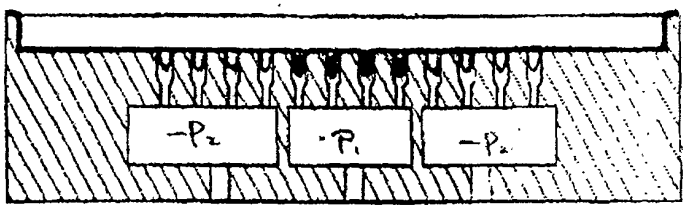

A
+P
+P
+P
B
Hyb Fluid
-P
+P
+P
C
First Vacuum
Second Vacuum
Second Vacuum
D
+P
-P
+P

Figure 10

E



To Page No. 6

F

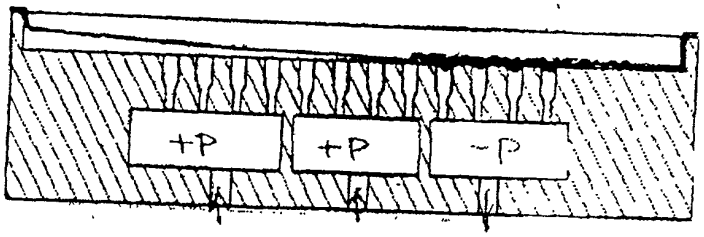


Figure 10 (cont'd)

ANALYTICAL HYBRIDIZATION

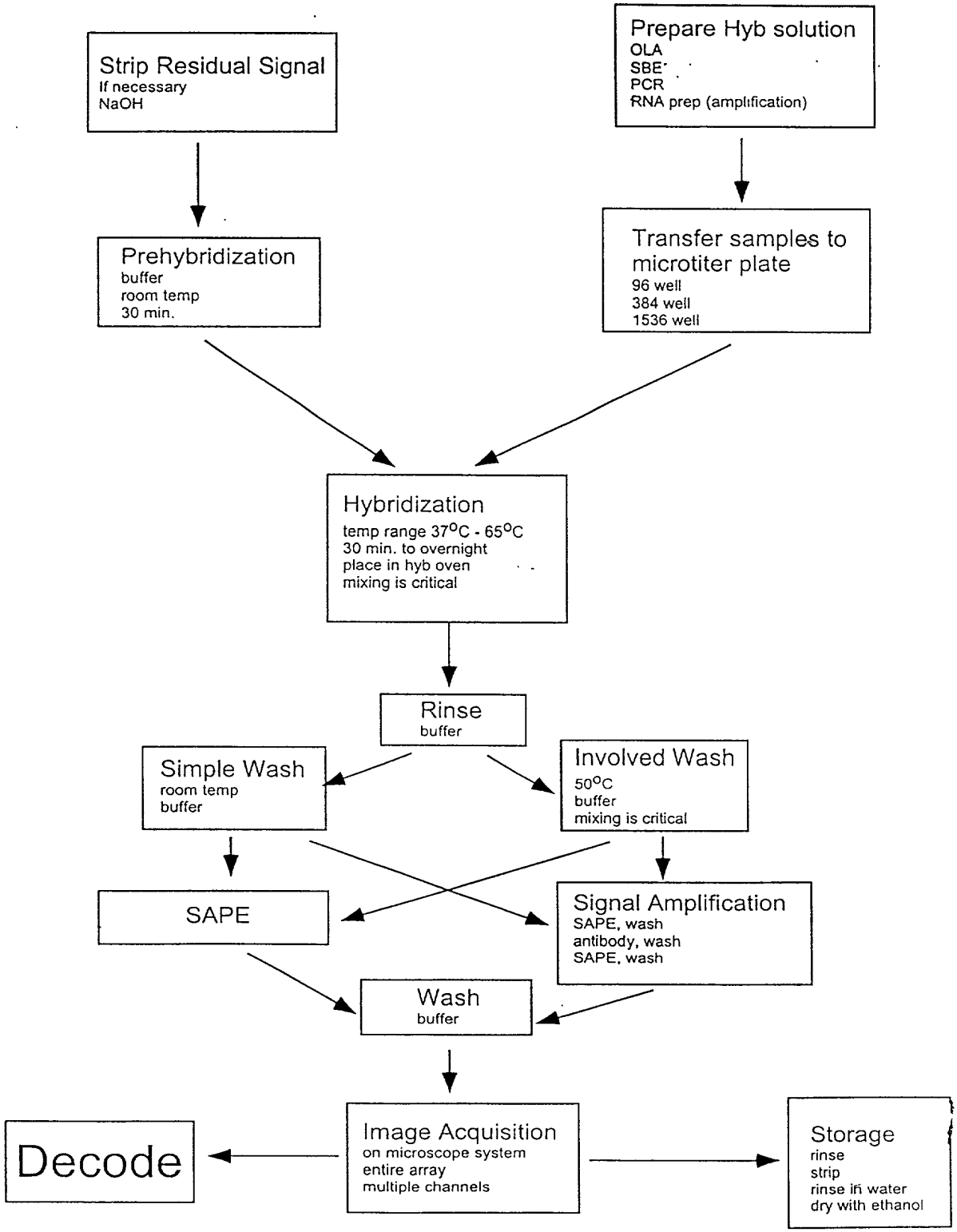


Figure 11

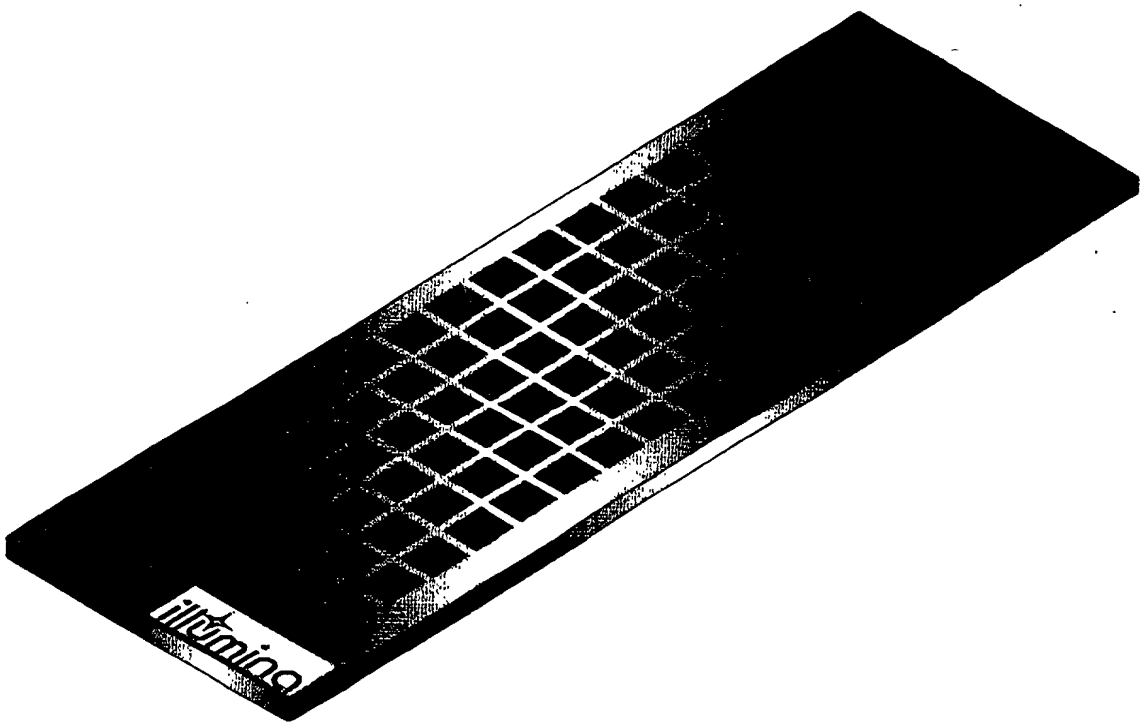


Figure 12

Attorney Docket No. 25230-2004

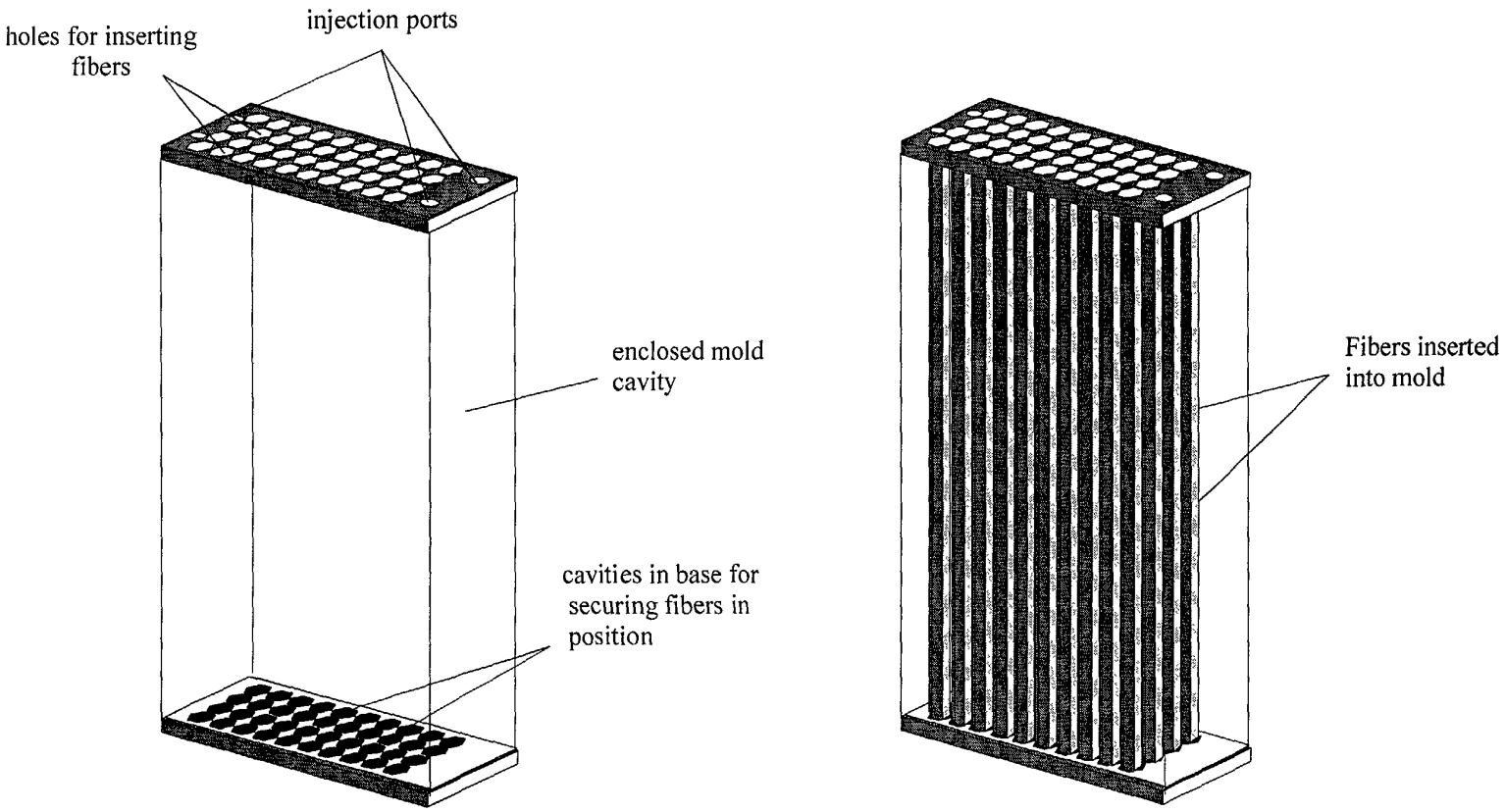

holes for inserting fibers
injection ports
enclosed mold cavity
cavities in base for securing fibers in position
Fibers inserted into mold

Figure 13